

23rd ANNUAL
HONOR AWARDS PROGRAM



U.S. DEPARTMENT OF COMMERCE

23_{rd} ANNUAL

HONOR AWARDS PROGRAM

PROGRAM

October 28, 1971/3:00 P.M.
DEPARTMENT OF COMMERCE AUDITORIUM
Fourteenth Street between E Street
and Constitution Avenue, N.W.
Washington, D. C.

INTRODUCTION

John Will
Director of Personnel

Presentation of the Colors
U.S. Merchant Marine Academy Color Guard

ADDRESS

Maurice H. Stans
Secretary of Commerce

PROGRAM ANNOUNCEMENTS

Larry A. Jobe
*Assistant Secretary
for Administration*

Suggestion Award

Silver and Gold Medal Awards

Music by
U.S. Merchant Marine Academy Regimental Band

GOLD MEDAL AWARD WINNERS



Leonard R. Jackson

*Chief, Foreign Trade Division
Bureau of the Census*

Mr. Leonard R. Jackson is recognized for his outstanding contribution to Government and industry through his leadership in the exploration, development, implementation, and administration of changes in the methods by which respondents report their activity in the field of foreign trade. These changes serve to lighten the reporting burden of respondents without impairing the quality, value, and validity of the statistics compiled by the Bureau of the Census.



David L. Kaplan

*Acting Chief, Census Planning
Division
Bureau of the Census*

Mr. David L. Kaplan exerted a major role of leadership in his position as Coordinator for the 1970 Census. This Census involved major procedural innovations which required extensive pretesting. Within established limits of time and money, he stimulated careful and effective planning of all phases of an undertaking involving contact with about 70 million households throughout the United States in order to assure timely and accurate completion of each of the many steps involved. Mr. Kaplan's leadership has been a major element in effectively mobilizing the resources of the Bureau and of other organizations toward the successful completion of this massive undertaking.



Edward R. Killam

*Deputy Director, Office of Trade
Adjustment Assistance
Bureau of Domestic Commerce*

Mr. Edward R. Killam has made outstanding contributions to the success of the business and industry programs of the Department of Commerce. His forceful leadership and executive direction have inspired his colleagues to excel. His imagination and resourcefulness have led to the creation of new program activities. These qualities of creative leadership have made possible the achievement of diverse goals in areas of the greatest business and public sensitivity. Some of the programs which reflect his skills in building innovative and soundly based organizations include promotion of export expansion; development of pilot programs for Government/business cooperation in solid waste disposal; promotion of consumer-oriented activities of business concerning unit-pricing studies, appliance service and warranties; and standardization of packaging sizes.



Arthur U. Sufrin

*Deputy Director, Office of
Industrial Mobilization
Bureau of Domestic Commerce*

Mr. Arthur U. Sufrin is an outstanding Federal career executive who has superbly contributed to the advancement of industrial mobilization activities through a number of wartime and related emergency periods. His planning and operational abilities have been significant factors in the effective administration of vital national security programs conducted under the authority of the Defense Production Act and related Executive Orders. His organizational capability has enabled Federal programs to interface with industrial efforts, has been a major factor in assuring the prompt priority delivery of defense materiel, and has resulted in the effective and economical operation of the programs. His relationship with defense industries and governmental defense agencies has been consistently outstanding.



Stanley Nehmer

*Deputy Assistant Secretary for
Resources
Domestic and International
Business*

Mr. Stanley Nehmer's skill as a policy advisor and negotiator and his exceptional leadership and keen analytical ability reflect the experience of more than 25 years of government service. As Deputy Assistant Secretary for Resources, Mr. Nehmer has played a key role in the development and implementation of policies and programs which have been crucial for the continued well-being of major basic industries and resources in the United States. He has given effective leadership in developing and carrying out the international cotton textile agreements program under which more than 25 bilateral cotton textile agreements were negotiated. He has contributed significantly to Departmental policies with regard to the oil and petrochemical industries and international commodity agreements, such as coffee and other resource problems affecting trade and the national interest.



Frances L. Hall

*Director, International Trade
Analysis Division
Office of International Commercial
Relations
Bureau of International Commerce*

Miss Frances L. Hall is commended for her inspiring leadership and management in conceiving and developing the international trade analysis and statistical programs of the Bureau of International Commerce. She is recognized for her personal dedication and for setting the highest standards of professional integrity in support of the development of U.S. economic and commercial policy at a time when the U.S. balance of payments and trade position were undergoing severe strains. She has performed in a consistently outstanding manner which has resulted in bringing added prestige and honor to the Department of Commerce.



Rauer H. Meyer

*Director, Office of Export Control
Bureau of International Commerce*

Mr. Rauer H. Meyer, widely acclaimed as the Nation's foremost authority on export controls, has earned the respect and admiration of his associates throughout the Executive Branch, of members of the Congress, and of officials in the community of exporters. By applying his strong intellect, abundant energy, creative imagination, and unselfish dedication to the development of analytically sound and thoughtfully presented policy recommendations, he has successfully reconciled the national security and foreign policy objectives of the export control program with those of expanded East-West trade. Under his directorship, export control impediments to the exchange of nonstrategic goods and related technology between the United States and Eastern Europe have been reduced significantly. As a result, constructive, peaceful, commercial relationships with Eastern Europe have been enhanced.



Paul E. Pauly

*Assistant Director
Bureau of International Commerce*

Mr. Paul E. Pauly's long and distinguished public service has included important assignments in Washington, the Field Service, and the Foreign Service, as well as numerous official overseas missions for the Government—all in the interest of international business development. Creative and inspired contribution in organizing and directing the varied programs of the Office of International Trade Promotion has given the Department and U.S. Government a vital channel for serving the growing and critical needs of international traders for current business information in support of overseas market development. The Trade Centers, Commercial Exhibits, Trade Missions, Developing Countries and other major programs have achieved notable effectiveness under his direction, and have increased sales of U.S. products throughout the world. In a special way he has advanced critical international trade programs and U.S. policies in the developing countries of the world.



Wilson E. Sweeney

*Assistant Director, Office of Export
Control
Bureau of International Commerce*

Mr. Wilson E. Sweeney has, over the years, made outstanding and meritorious contributions to the U.S. export control program, the national economic defense effort, and the international strategic control program. His energy, dedication, and sound judgment have been critical factors in the effective administration of these programs. Mr. Sweeney's contributions include: (1) leadership in reducing documentation requirements on goods exiting the U.S.; (2) a successful procedure, in conjunction with the Bureau of Census, that permits high volume exporters to file monthly reports in lieu of separate export declarations for each shipment, creating substantial savings, to both industry and Government; (3) formulation and development of a bulk licensing procedure to enable U.S. companies to plan and execute their overseas sales with a minimum of export control delay; (4) efforts on behalf of the "short supply" aspects of export control in which he played a prominent and indispensable role in the formulation of Departmental policies.



Vincent D. Travaglini

*Director, Foreign Business Practices Division
Office of International Investments
Bureau of International Commerce*

Mr. Vincent D. Travaglini is recognized for outstanding leadership in American foreign trade and investment programs. These include: (1) fashioning a U.S. program respecting international standardization; (2) analyzing foreign tax treatment of exporters' earnings and participation in the formulation and advancement of a tax proposal benefitting U.S. exporters; (3) encouraging the use of commercial arbitration as a means of settling international disputes, particularly through his efforts in securing the U.S. adoption of the U.N. Convention on the Enforcement of Foreign Arbitral Awards and the revival of the Inter-American Commercial Arbitration Commission; and (4) initiating several unique services to exporters including comprehensive analyses of foreign requirements affecting operations of U.S. firms, promotion of revision and expanded use of the Webb-Pomerene Act providing antitrust exemption in export operations, and serving as a prime mover in securing U.S. participation in the international carnet program.



Robert J. Blackwell

*Deputy Assistant Secretary for
Maritime Affairs
Maritime Administration*

As Deputy Assistant Secretary for Maritime Affairs at a time crucial to the future of the U.S. Merchant Marine, Mr. Robert J. Blackwell plays a pivotal role in the operations of the Maritime Administration. His extensive legal, administrative and analytical talents have been instrumental in the development and implementation of the new Merchant Marine Program authorized by the Merchant Marine Act of 1970. In directing the accomplishment of the new and emerging programs which are radically changing the direction and goals of the agency, he has exhibited leadership qualities essential in gaining the support of maritime industry and Maritime Administration officials. Despite the pressures of his expanded role in maritime affairs, Mr. Blackwell has found time to direct and coordinate civil rights and contract compliance activities in a highly sensitive and outstanding manner. Throughout the industry, he is recognized as one of the foremost maritime authorities in the country.



Marvin Pitkin

*Assistant Administrator for
Research & Development
Maritime Administration*

Mr. Marvin Pitkin is recognized for the development of an enlarged and redirected Merchant Marine Research and Development Program in response to the President's maritime program message. He successfully moved such a program from the planning to the implementation stage in an extremely short time. This program was directed to reduced subsidy payments by the government, increased productivity of merchant ships, and increased opportunity for commercial U.S. ship operations.



Harold L. Crutcher

*Scientific Advisor, National
Climatic Center, Environmental
Data Service
National Oceanic and
Atmospheric Administration
Asheville, North Carolina*

Dr. Harold L. Crutcher has made major contributions to national defense, the space program, the missions of NOAA and the Department of Commerce, and the international scientific community. Since 1951 Dr. Crutcher has provided scientific leadership for the U.S. Navy's Marine Climatic Atlas of the World program, providing military planners and scientists with the most comprehensive marine atlas ever developed. As an outgrowth of this work, Dr. Crutcher has subsequently developed an upper air climatic atlas series for the Northern Hemisphere, and was the catalyst in the development of the *first* comprehensive upper air climatic atlas for the Southern Hemisphere.



Robert S. Dietz

*Research Oceanographer
Atlantic Oceanographic and
Meteorological Laboratories
Environmental Research
Laboratories
National Oceanic and Atmospheric
Administration
Miami, Florida*

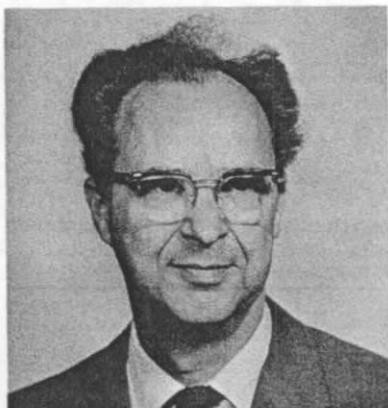
Dr. Robert S. Dietz is credited with two major discoveries which have significantly altered the development of the earth sciences. He was one of the first to point out the importance of research on terrestrial meteor craters and led the way in their identification and in establishing their meteoric origin. Secondly, his studies explaining how the idea of continental drift could be integrated with the history of the ocean floor have led to the development of one of the most important concepts in geophysics today—that of sea-floor spreading. Dr. Dietz contributed notably to scientific literature in the areas of morphology and structure of the deep-sea floor, the history of ocean basins, sea-floor spreading, continental drift, deep-sea research vehicles, and astroblesmes.



Roy L. Fox

*Director, Central Region
National Weather Service
National Oceanic and Atmospheric
Administration
Kansas City, Missouri*

Mr. Roy L. Fox has demonstrated extraordinary leadership in developing and managing programs of fundamental importance for the safety of people living in the mid-western portion of the country. That area is subjected frequently to disastrous storms, such as tornadoes and blizzards, and to large-scale floods in which loss of life and damage to property can be enormous. Through exceptional initiative, highly imaginative thinking, and particularly adept management ability, Mr. Fox has developed and maintained a high state of readiness for warnings of severe storms among the Weather Service Offices and the communities they serve. This has directly resulted, upon numerous occasions, in almost unbelievably low fatality rates during widespread tornado outbreaks in urban areas.



Raymond L. Joiner

*Digital Computer Systems
Administrator
National Climatic Center
Environmental Data Service
National Oceanic and Atmospheric
Administration
Asheville, North Carolina*

Mr. Raymond L. Joiner was the key man in the success of the NOAA-NASA-General Electric team effort to validate, process, and reduce the mass of raw environmental data collected by the Barbados Oceanographic and Meteorological Experiment (BO-MEX), the first full-scale scientific investigation of ocean-atmosphere energy relations. Through his ingenious improvisation and catalytic technical and management skills, Mr. Joiner—despite formidable obstacles—succeeded in extracting the maximum scientific intelligence possible from the raw data collected, achieving results whose scientific sophistication had appeared to be beyond the capability of the original instrumentation and existing technology.



Robert A. McCormick

*Director, Air Resources Laboratory
Environmental Research
Laboratories
National Oceanic & Atmospheric
Administration
Raleigh, North Carolina*

Mr. Robert A. McCormick is recognized for outstanding contributions of major significance in relating meteorology to human problems through his outstanding leadership in administration in the field of air pollution meteorology. In addition, his leadership in national and international programs for modeling the atmosphere over urban areas has contributed to our knowledge of pollutant dilution. He has directed attention to problems of increasing levels of pollution on a global scale. His contributions to science in this area and the field of air pollution meteorology have been noteworthy.



Donald F. Moore

*Assistant Administrator for Plans
and Programs
Office of Administrator
National Oceanic and Atmospheric
Administration*

Mr. Donald F. Moore's outstanding leadership has been a critical factor in the success NOAA has had in converting from ESSA into the Nation's major center of civil strength in the oceans, atmosphere, and solid earth geophysics. He is cited particularly for his distinguished leadership in preparing the National Oceanic and Atmospheric Administration's first program plans for fiscal years 1972 and 1973 within a period of less than six months, and for his wise guidance and counsel to the Administrator on the organization of NOAA and on the establishment of program balance and the setting of priorities.



Granville Y. Custer, Jr.

*Primary Examiner
Patent Office*

Mr. Granville Y. Custer, Jr., has been an outstanding Patent Examiner for many years. His work as the Patent Office Expert in Stapling and Elongated Member-Driving Apparatus and in the field of Solid Material Comminution or Disintegrations has materially resulted in shortening the pendency of patent applications. His performance has had an exemplary and beneficial effect far beyond his individual accomplishments in advancing Departmental and Patent Office goals.



Bernard Dennison

*Trademark Examiner
Patent Office*

Mr. Bernard Dennison, at the risk of his own life, saved the lives of two persons, one of whom was a paralytic, in a fire in their home. Mr. Dennison was the recipient of a citation from The President of the United States. He also received a citation from the Fire Marshal of Montgomery County and the Bronze Medal from the Carnegie Hero Fund Commission. The courage and determination of Mr. Dennison exemplifies the highest degree of heroism to his fellow men.



Charles H. Alexander

*Director, Office of Budget and
Program Analysis
Office of the Secretary*

Mr. Charles H. Alexander has displayed superb overall technical knowledge in budget management and has demonstrated outstanding program leadership. Under his guidance and leadership, new techniques have been developed and implemented for bringing financial program and performance data and program analysis more effectively into the budget process, thereby enhancing the effectiveness of resource allocations and program management. Specific examples are the development of concepts and procedures for program and project structures, cost budgeting and program analysis; the development of legislation (P.L. 87-489 and 91-412) to simplify financial management processes; and the negotiation of systems for budgeting resource needs and for financial management and reporting on an accrual basis related to program progress for the NOAA satellite and maritime ship construction and operating subsidy programs.



Michael Boretsky

*Senior Policy Analyst
Office of Policy Development
Office of the Secretary*

With an extraordinarily high degree of ingenuity and technical competence, Dr. Michael Boretsky has engaged in pioneering work in the development of new theories and empirical studies that have enhanced the public understanding of the role of science and technology in society. The keen insight into the relationship of technology and the economy provided in his studies have added a new dimension to economic analysis. They are conducive to the rational formulation of the Department's position in the areas of trade and science policy and have strengthened the Department's leadership position in formulation of national economic and science policies. Dr. Boretsky's work has also been highly regarded by those responsible for national security.



Meir Gabbay

*Director, Financial Systems Staff
Office of the Secretary*

Mr. Meir Gabbay is recognized for the key role he has played in the development of the Department's financial systems during the past two years. Under his guidance and leadership as Director of the Financial Systems staff, the Department of Commerce became the first Cabinet agency to have all of its discrete systems in compliance with the concepts set forth in the Budget and Accounting Procedures Act of 1950. Through his ingenuity and persuasiveness, he has provided the impetus needed to bring the Department to the forefront in this important area of administrative management.



Walter A. Hamilton

*Executive Director, National
Industrial Pollution Control
Council
Office of the Secretary*

Mr. Walter A. Hamilton has displayed rare and outstanding leadership in the formation and operation of the National Industrial Pollution Control Council in advancing the combined efforts of industry and Government to abate pollution from industrial sources. His dynamic leadership and public-minded responsibility in developing highly effective communications between private industry and the President and the Council on Environmental Quality, have materially advanced the Nation's environmental goals. Mr. Hamilton has directed the organization and operation of a new organization within the Department and through bold and imaginative leadership has arrived at solutions and recommended courses of action that have consistently reflected sound judgment on extremely sensitive matters while being accurate and responsive to the needs of the Administration.



Alfred Meisner

*Assistant General Counsel for
Administration
Office of the General Counsel
Office of the Secretary*

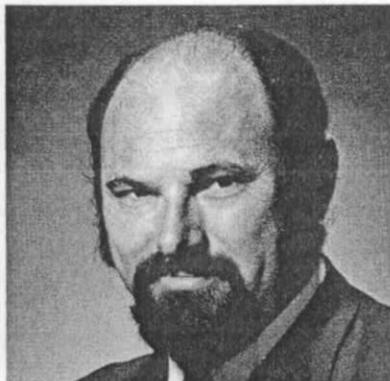
Mr. Alfred Meisner has with exceptional professional legal expertise, initiative and dedication made distinguished contributions of major significance to the effective administration of the Department. The constructive program he developed for counseling new executive officers on their ethical and other responsibilities under laws governing the conduct of public business and his perceptive legal guidance in these highly sensitive and complicated areas, are particularly valuable. He markedly strengthened the effectiveness of other programs relating to personnel and claims administration involving matters having serious legal consequences. He provided outstanding leadership and positive emphasis in developing the Department's comprehensive regulations on nondiscrimination and public information.



Paul A. Ziemer

*Deputy Director, Office of
Publications
Office of the Secretary*

As Deputy Director of the Office of Publications, Mr. Paul A. Ziemer has been an energetic innovator in the development of new printing techniques. He was a prime mover in bringing tape-driven photo-composition into Government use two or three years ahead of the time it would otherwise have arrived. He pioneered the development of an efficient microfilm-microfiche reproduction unit at a time when such a project was risky. He was an organizer of the complex procedures required to process the 1970 Decennial Census through the GPO Linotron, cutting costs and time materially. He was an early promoter of the Patent Office data base and a major contributor to development of computerized printing of patents. Mr. Ziemer's imagination and competence in the two areas of electronic composition and micro-publishing are attributable to saving the Government millions of dollars.



Lawrence H. Bennett

*Physicist
Metallurgy Division
Institute for Materials Research
National Bureau of Standards*

Dr. Lawrence H. Bennett has made distinguished contributions to research on the electronic properties of metals and alloys and has shown outstanding leadership of groups conducting research in this field. He instituted new programs in Soft X-ray Spectroscopy, Mossbauer effect, and magnetic susceptibility; and he developed the Alloy Data Center of NBS. Each of these programs is characterized by precise experimental measurements supported by theoretical investigations. His group is widely recognized as one of the foremost groups in the country carrying out research on the electronic properties of metals. In all these programs his forceful leadership has helped immensely in maintaining the quality and quantity of the work carried out. Dr. Bennett is internationally recognized and holds important posts in scientific societies.



Martin J. Berger

*Chief, Radiation Theory Section
Center for Radiation Research
National Bureau of Standards*

Dr. Martin J. Berger has made many outstanding contributions in the field of radiation transport theory and its application to problems of national and worldwide interest. He has developed a variety of calculational techniques, employing Monte Carlo and analytical methods that yield basic data on the interaction of ionizing radiation with media. Because of their versatility, these techniques have been applied to the solution of many important problems. Among them are data used for the design of radiation shields in spacecraft, for the distribution of radiation energy in the human body during radiotherapy treatments of patients, for increased knowledge of the production of X-rays in metallic targets, and for response functions for silicon detectors used in radiation measurements. These accomplishments and others have resulted in worldwide recognition of Dr. Berger as an expert in his field.



Bascom W. Birmingham

*Deputy Director, Institute for
Basic Standards/Boulder
National Bureau of Standards
Boulder, Colorado*

Mr. Bascom W. Birmingham is recognized for outstanding achievement in unifying and streamlining the management of the Boulder Laboratories of the National Bureau of Standards, harmonizing the programs of the technical divisions at Boulder with one another and with the activities at NBS, Gaithersburg. In this connection he presided over and adjudicated the services and space problems of the various Commerce agencies housed at the Boulder Laboratories. He represented NBS and the Department of Commerce with tact and distinction as well as raising the morale and sense of purpose of the Boulder Laboratories.



Arthur A. Maryott

*Chemist (Physical)
Polymers Division, Institute for
Materials Research
National Bureau of Standards*

Dr. Arthur A. Maryott is recognized for his outstanding contributions of major significance in the fields of microwave spectroscopy of compressed gases and dielectric properties of liquids. Dr. Maryott's experimental developments have yielded a unique method of accurately measuring molecular dipole and quadrupole moments. He played a leading role in discovering the important phenomenon of microwave absorption in nonpolar gases and correctly attributed this to transient dipoles induced during collision. He led work in microwave pressure broadening and the transition from resonant to Debye-like absorption. He was first to measure the dipole moment of a saturated hydrocarbon and, more recently, using pulsed NMR techniques was first to measure both the orientation and angular momentum correlation functions for a single molecular system.



W. Wayne Meinke

*Chief, Analytical Chemistry
Division
Institute for Materials Research
National Bureau of Standards*

Dr. W. Wayne Meinke is being recognized for his outstanding contributions to analytical chemistry and to the Standard Reference Materials Program through his inspiring leadership, his highly productive planning, and his effective administration of complex research and development programs. He had the foresight and the ability to mold the Bureau's programs in analytical chemistry to meet the needs of the Nation's most pressing problems in materials characterization. He stimulated and encouraged meaningful research in many analytical competences in his Division to extend sensitivity and accuracy to new levels of performance. He strongly supported and extended the Standard Reference Materials Program to meet requirements for improved accuracy in vital new areas, such as clinical analysis, air pollution, and water pollution.



John B. Wachtman, Jr.

*Chief, Inorganic Materials
Division
Institute for Materials Research
National Bureau of Standards*

Dr. John B. Wachtman, Jr., is recognized for his distinguished contributions to research on the physics of materials; for his outstanding leadership of groups conducting fundamental and applied research on inorganic materials; and for his initiative in directing his Division's work into areas of new, highly critical research needs of NBS and the Nation. At the same time he has maintained key competence programs required for the understanding of inorganic materials.



Wolfgang L. Wiese

*Chief, Plasma Spectroscopy
Section
Optical Physics Division
Institute for Basic Standards
National Bureau of Standards*

Dr. Wolfgang L. Wiese has made outstanding contributions to knowledge of the fundamental properties of atoms. His studies in plasma spectroscopy have greatly increased the accuracy of available data on transition probabilities. His group has become one of the acknowledged leaders in this field and his publications are accepted as definitive and invaluable to astronomers and plasma physicists generally.



Everett G. Fuller

*Chief, Photonuclear Physics
Section*

Evans V. Hayward

Physicist (Nuclear)

*Center for Radiation Research
National Bureau of Standards*

Dr. Everett G. Fuller and Dr. Evans V. Hayward are recognized for their pioneering efforts in the field of photonuclear physics. With experiments designed and conducted by them, they made initial observations of the nature of interactions between nuclei of atoms and incident x or gamma rays with high energies. Although their early interests were to study the structure of the nucleus, the basic information gained from the experiments has been used in an increasing number of practical applications. Among them are measurement standards for technological developments, safeguards for accountability of fissionable materials, radiation therapy for cancer patients, shielding of personnel from radiation produced by high-energy accelerators, national defense considerations, and radiation processing of materials.



William F. Utlaut

*Supervisory Electronic Engineer
Institute for Telecommunication
Sciences, Office of
Telecommunications
Boulder, Colorado*

Dr. William F. Utlaut is recognized for his outstanding leadership and contribution to radio science represented by recent high-power radio exploration of the ionosphere. In April 1970, under Dr. Utlaut's leadership, a unique national research facility and program for study of upper atmosphere (ionosphere) physics was brought into operation at Platteville, Colorado. The completion of this facility, and obtaining of striking new scientific knowledge of the ionosphere during the first year of the research program, culminated more than six years of planning and direction of the highest caliber. The results of even very early utilization of the facility have yielded substantial new knowledge of the earth's ionosphere, important to telecommunication application and environmental understanding.

SILVER MEDAL AWARD WINNERS

Vincent C. Finelli

*Digital Computer Systems
Administrator
Office of Business Economics*

In a time of much increased need at OBE for reliable and expanded automatic data processing (ADP) services, Mr. Vincent C. Finelli's able management of his staff has helped them provide not only accurate but unusually efficient and economical computer services. His influence is evident in each of OBE's major programs. Most notable of his recent achievements are the following: implementation of a management information system to control costs of ADP man and machine time; conversion of OBE's data-gathering work from manual processing to automatic processing; substitution of keytape equipment for planned contractual keypunch services at much reduced cost; installation of a teletype in OBE for access to a remote computer, which significantly reduced queue time; and augmentation of training facilities for OBE personnel.

Vesta C. Jones

*Statistical Assistant
Office of Business Economics*

Mrs. Vesta C. Jones has made a significant contribution to the development of the Office of Business Economics' annual series on gross national product by major industry. She has demonstrated over many years an unusual skill in organizing, editing, and processing a large amount of statistical data relating to industry output, input, and prices. Mrs. Jones has been

responsible for the operation of complex statistical procedures and has implemented appropriate processing techniques that insured the accuracy and reasonableness of the final data prepared for analysis and publication. Her knowledge, judgment, data editing skills, capacity to perform effectively under "tight" deadlines, and her efficiency in maintaining work files have contributed importantly to the increased use of these series as analytical tools.

Donald A. King

*Supervisory Economist
Office of Business Economics*

Mr. Donald A. King plays a major role in OBE's work of analyzing the U.S. economy and interpreting economic developments for the public. His imagination, leadership, and perseverance have contributed vitally to the continual improvement of the quality of that work. His efforts have been directed principally to OBE's monthly journal, the *Survey of Current Business*, of authoritative, useful analyses of the U.S. economy.

John J. Casserly

*Chief, Public Information Office
Bureau of the Census*

Mr. John J. Casserly has been responsible for the production and dissemination of materials for all communications media to convey the important message of the 19th

Census, i.e., the story derived from statistics of the size, mobility, and characteristics of the people and conditions in which they live. He has arranged news conferences, exercised unusually keen judgment in spotting material of particular interest and significance to the public, supervised the preparation of news releases, and used his knowledge of the media to insure the widest possible distribution of news and feature stories generated by the Census. He simultaneously applied the same talents to publicize the results of continuing and special Bureau programs.

Donald R. Dalzell

*Computer Programmer
Computer Science Division
Bureau of the Census*

Mr. Donald R. Dalzell has made a substantial contribution to preparation of improved publication copy for the 1970 Census. He has been able to use the computer to the fullest to ease and expedite the intricate, detailed, and large amount of work of laying out all the publication copy for the Census in a form that engages the full power of LINOTRON to speed and improve the appearance of Census publications. He has significantly advanced the successful application of complex and powerful tools, the computers and LINOTRON, to the substantial improvement of the quality of a major output of the Bureau. In so doing, he has demonstrated an extraordinary ability for organization of diverse, intricate, and voluminous detail, involving machines and specialists.

John C. Deshaies

*Statistician (Health)
Data User Services Division
Bureau of the Census*

Mr. John C. Deshaies is recognized for his outstanding work as director of the New Haven Health Information System Project and authorship of Census Use Study Report No. 12, *Health Information System—II*. The report is an exceptionally clear and professional treatment of the research carried out in the HIS project. The actual research is also excellent in all respects, involving such techniques as multivariate statistical analysis, graphic displays and careful analytical work to produce timely and useful results of value not only in New Haven but as a model for similar projects in other localities.

Charles Merzel

*Survey Statistician
Agriculture Division
Bureau of the Census*

Mr. Charles Merzel is recognized for highly professional conduct in the planning of systems and procedures affecting the processing of the 1969 Census of Agriculture. His innovative techniques and attention to the overall functioning of the plans set up were responsible for the smooth and economical flow of work without the usual problems arising in a job of this magnitude. These procedures resulted in substantial money savings over previous censuses. During this time he was also responsible for training his staff to a degree of efficiency which made planning

and/or amending procedures a smooth and effortless task.

Ruth Mills

*Staff Assistant
Population Division
Bureau of the Census*

Mrs. Ruth Mills has had responsibility for coordinating technical detail in all aspects of the 1970 Census from its inception in the field enumeration to the final tabulations. She has a unique ability in mastering a wide variety of detail in terms of major objectives. Her imaginative solutions to unforeseen problems and her unswerving dedication to getting the job done have made an outstanding contribution to the effective processing of the 1970 Census.

Joseph R. Norwood

*Field Director
Data Collection Center
Charlotte Field Division
Bureau of the Census
Charlotte, North Carolina*

Mr. Joseph R. Norwood has consistently maintained peak levels of efficiency in the continuing data collection activities of the Charlotte Regional Office. In meeting the heavy additional demands of the 19th Decennial Census, he demonstrated outstanding leadership and management abilities. He directed the recruitment and performance of several thousand employees; coped effectively with the myriad problems of a census; and exercised remarkable skill and judgment in his relations with

public officials, civic, and private organizations. During his 14 years as Regional Director, Mr. Norwood has distinguished himself by developing and administering operational procedures capable of producing the highest quality results in a large area of diversified social and economic characteristics.

Gerald J. Post

*Geographic Planning &
Operations Officer
Geography Division
Bureau of the Census*

Mr. Gerald J. Post is commended for outstanding skill in the development and completion of processes involved in the assignment of geographic identifications to census questionnaires. His work was accomplished, despite enormous pressures of the Decennial Census, through his ability to inspire his staff with his resourcefulness, energy and judgment.

Harry M. Callaway

*Physical Scientist
Metals and Minerals Division
Bureau of Domestic Commerce*

Mr. Harry M. Callaway is the only physical scientist in the Metals and Minerals Division. His invaluable contributions have included: directing the agency's Critical Materials Program; drafting background papers for the Secretary establishing the National Minerals Commission; ably representing the

Department in the Interagency Council for Materials; representing BDC on the Commerce Technical Advisory Board Panel on Auto Fuels and Air Pollution and the Government Copper Production Expansion Program; and acting as Chairman of the subcommittee on the Economic Implications—Law of the Sea Task Force.

Gloria H. Dickson

*Statistical Assistant
Office of Business Research and
Analysis
Bureau of Domestic Commerce*

As a statistical assistant, Mrs. Gloria H. Dickson far exceeds the requirements of her position. She is recognized as an expert within BDC on statistical classification systems for U.S. production and foreign trade. Her contacts with key personnel in other agencies have created a rapport based on confidence, integrity and professional respect. She has the major responsibility for up-dating the BDC import/export program. In addition, she has prepared statistical data and charts for the U.S. Industrial Outlook. Recently she made a valuable contribution to the study examining the metric system's impact on foreign trade.

Roderick M. Gillies

*Director, Business Cooperation
Staff
Office of Business Services
Bureau of Domestic Commerce*

Mr. Roderick M. Gillies is recognized for a contribution of exceptional value to the Department of Commerce and to the accomplishment of current national objectives. Mr. Gillies, more than any other individual, has been responsible for the effective utilization of the National and Regional Export Expansion Councils. These Councils comprise a voluntary group of 1,500 distinguished businessmen appointed by the Secretary of Commerce to advance the President's balance of payments objective through encouraging the American Business community to increase its exports.

Saul Padwo

*Director, Scientific & Business
Equipment Division
Office of Business Research and
Analysis
Bureau of Domestic Commerce*

Mr. Saul Padwo has operated with outstanding effectiveness in his involvement in Department of Commerce programs and in his motivating and administration of the Scientific and Business Equipment Division. He serves as a member of the National Academy of Engineering's Committee on the Interplay of Engineering with Biology and Medicine. Mr. Padwo's excellent contributions have

led to his selection as a Committee executive. During 1969-70 he planned, organized and co-chaired a workshop designed to identify the critical unresolved problems in the field of engineering with biology and medicine and to recommend appropriate solutions.

Charles R. Weaver

*Director, Transportation Division
Office of Business Research and
Analysis
Bureau of Domestic Commerce*

Mr. Charles R. Weaver has made a contribution to the Department of Commerce's role in connection with the implementation of the United States-Canada Automotive Agreement. He has been particularly commended with respect to careful policy and background papers used by the Secretary and the rest of the U.S. delegation to the 1970 Ministerial talks with Canada on trade and economic affairs. In various programs concerning transportation, Mr. Weaver has maintained correspondingly high level performance over a period of years. His background and experience have been exceedingly useful in domestic problems and in assisting the transportation equipment industry with international sales efforts.

Israel M. Baill

*Deputy Director, Office of Technical Assistance
Economic Development Administration*

In his nine years of service with the Economic Development Administration, Mr. Baill has demonstrated unusually high qualities of leadership in the many roles he has played, beginning as a Project Officer, then as Division Chief, and as Deputy Director of the Office of Technical Assistance. His knowledge of EDA programs, coupled with the experience gained in over 25 years of Federal Service, has enabled him to provide an unusually competent direction to many programs and projects in the technical assistance field. Among the many contributions he has made are the development of a highly effective system of technology transfer in rural areas, the focusing and direction of the University Center concept, and the development of unique approaches to the development of programs to improve the effectiveness of disadvantaged individuals and groups in fostering economic growth and improvement. His capabilities are well-known and have played an integral part in coordinating programs throughout the Federal structure.

John Corrigan

*Director, Office of Equal Opportunity
Economic Development Administration*

Mr. John Corrigan has made an unusually creative contribution to

the success of the Oakland Seventh Street Marine Terminal Project. He faced a particularly difficult situation in that minorities in Oakland had in the past suffered from considerable job discrimination, yet this Terminal was one of the largest public works projects ever assisted by EDA. This project employs some 350 minority residents directly and another 600 minority residents indirectly, in addition to a majority of jobs during construction going to minorities. This successful Oakland job opportunity effort has obvious relevance for other EDA-assisted urban areas.

George B. Stoner

*Loan Specialist (Commercial)
Office of Business Development
Economic Development Administration*

During Mr. George B. Stoner's career in the Department his work has far exceeded normal standards as attested by his many awards. His contribution to the business loan program of the Economic Development Administration has formed the background, to a large extent, under which the division now operates. He was personally responsible for negotiating the largest loan ever made by EDA in the amount of ten million dollars. His counsel is sought on all large and difficult types of loans made in the business development program.

Raymond E. Tanner

*Special Assistant for Indian Affairs
Office of the Deputy Assistant Secretary
Economic Development Administration*

Mr. Raymond E. Tanner has significantly assisted in the development of a Department of Commerce American Indian economic development program involving over 100 Indian reservations designated for Economic Development Administration assistance. By his foresight he has shown a way for the American Indian to compete fully in the mainstream of business and commerce throughout the Nation. He has been a leader in the development of imaginative programs, such as the Industrial Development Intern Program which provides training in economic and industrial planning and development.

Hubert Taylor

*Economic Development Representative
Economic Development Administration
Oakland, California*

Mr. Hubert Taylor has been instrumental in achieving the completion of one of EDA's most notably successful projects, the Seventh Street Marine Terminal, Oakland, California. This project has resulted in the employment of over 350 minority residents in direct new jobs and an additional 600 indirect new jobs. Further, during construction phases of the project, more than half of the construction jobs went

to minority employees, an accomplishment seldom achieved in the agency's programs. Significantly, this has been accomplished in a community with a long history of failure to promote equal employment opportunities for minority citizens.

Bernard J. Cahill

*Acting Director, American Republics Division
Office of International Commercial Relations
Bureau of International Commerce*

Mr. Bernard J. Cahill is recognized for his effective service in promoting and protecting the interests of the United States in its economic and commercial relations with the countries in Latin America and the Caribbean. He has also greatly assisted the U.S. business community in that area.

Delbert O. Gordon

*International Trade Specialist
Office of International Investment
Bureau of International Commerce*

Mr. Delbert O. Gordon is cited for his initiative, skill, and effectiveness in advancing the U.S. foreign investment program. Particularly outstanding are his contributions in respect to investment in foreign tourism projects; assistance to American construction contractor firms in locating and participating in viable foreign projects; and assistance to bankers and other financial organizations, engineering and architectural design firms.

Clarence S. Siegel

*Deputy Director,
Office of International Commercial
Relations
Bureau of International Commerce*

Mr. Clarence S. Siegel has demonstrated distinguished technical, professional and leadership abilities in the development and advocacy of Departmental positions respecting U.S. economic relations with individual foreign countries and regional entities. During his career in the Department, he has ably represented the Department and the United States Government in international tariff and commercial policy negotiations, has been a valued advisor to the Secretary of Commerce and his staff on major issues of U.S. foreign trade and economic policy and has shown himself to be a capable administrator of major programs of the Bureau of International Commerce.

Rita A. Soucy

*Supervisory Travel Assistant
Office of the Director
Bureau of International Commerce*

Miss Rita A. Soucy has performed her duties in an outstanding and skillful manner. She has made especially significant contributions to the Department's program to extend and expand trade opportunities for American businessmen into Eastern Europe. The program beginning in the early sixties has relied heavily on personal and face-to-face contacts between American Government and business represen-

tatives and their counterparts in every Eastern European country except Albania and East Germany. These contacts have been made possible through Miss Soucy's success in making advance arrangements for both all-Government and mixed business-Government missions.

W. Earl Wade

*Assistant Director for Resources
Office of International Trade Pro-
motion
Bureau of International Commerce*

Mr. W. Earl Wade is recognized for his outstanding performance in the field of international trade promotion. He has provided a vital service to the American business community through the key role he has played over the past ten years in the development of the U.S. Trade Center and Commercial Trade Fair Programs. His continuing leadership in resolving complex administrative and fiscal problems attendant to Trade Centers and Commercial Exhibition Operations contributes significantly to savings for the Government while fully serving the trade promotional interests of the Departments of Commerce and State.

Edward P. Walinsky

*Director, Policy Planning Division
Office of Export Control
Bureau of International Commerce*

Mr. Edward P. Walinsky has consistently performed his duties in an exceptionally meritorious manner and made significant contributions to the U.S. Export Control program during the last eight years. His sense of public duty and his accomplishments in carrying out the objectives of the Export Control program within the overall context of U.S. policy are worthy of commendation. Of particular note have been the key roles which he played in the wholesale review and revision of the Department's Export Control Commodity List following the enactment of the Export Expansion Act of 1969, the recent change in export control policy to Romania, and the formulation of the General License List for the Peoples Republic of China.

Toby Jaffe

*Chief, Division of Subsidy Rates
Office of Subsidy Administration
Maritime Administration*

Mr. Toby Jaffe's thorough knowledge of the law and the regulations affecting the performance of his responsibilities, his understanding of the policies and objectives of the Merchant Marine Act, and his comprehension of complex financial arrangements, have contributed substantially to the success of the Subsidy Program. The extremely complex as-

signments which he has performed with a high degree of initiative have brought high praise to Mr. Jaffe and the Maritime Administration.

Steven A. Jennings

*Assistant Director for Operations
Maritime Administration
New Orleans, Louisiana*

Captain Steven A. Jennings has contributed materially to the accomplishment of agency programs through his consistent superior performance over an extended period. Typical achievements include his expertise in the fields of ship operations and operating differential subsidy. His persevering efforts in the reactivation and deactivation of ships in the Southeast Asia Program and his diligent efforts to protect the Government's interest in connection with the grounding of the SS ALAMO VICTORY as a result of Hurricane CAMILLE are indicative of his superior knowledge in the maritime field. Further, his originality in acquiring Navy barges for the purpose of storing warehouse material has been unequalled in this agency.

Phil S. Pearce

*Personnel Officer
Maritime Administration*

Mr. Phil S. Pearce has made major contributions to the Maritime Administration's personnel management program. He has displayed superb overall technical knowledge of personnel management and has demonstrated outstanding program leadership. This has been demon-

strated in his responsiveness in a period of substantial changes and, more recently, a period of severe personnel adjustment. He has contributed considerably in the development of Career Management Programs thus improving career opportunities for employees. Mr. Pearce is highly regarded by his superiors, colleagues, and the people under his direct supervision for his energy, resourcefulness, and knowledge of what it takes to develop, implement, and maintain excellence in personnel management.

Marjorie G. Rose

*Secretary to Assistant
Administrator for Operations
Maritime Administration*

Mrs. Marjorie G. Rose has made a substantial contribution to the attainment of the Maritime Administration's programs. Her knowledge of the agency's functions, of the personnel, and of the key representatives of the Maritime Industry has enabled her to provide the high level secretarial support necessary for the efficient functioning of the Office of the Assistant Administrator. She has greatly contributed to the goodwill of the agency and to the image of the U.S. Government.

Joe Scroggins, Jr.

*Maritime Recruitment Specialist
Maritime Administration
U.S. Merchant Marine Academy,
Kings Point, New York*

Commander Joe Scroggins' achievement in the field of minor-

ity recruitment of cadets for the U.S. Merchant Marine Academy has been of outstanding proportions. He not only established a program where none had previously existed but also carefully organized a campaign and personally executed its primary objectives so as to produce results far beyond the expectations and goals of the Administration and the Department. Using all classes of news media and working through the leading civil and community organizations, Commander Scroggins personally visited some 40 high schools in 20 major cities in 13 States. A recruitment brochure prepared by him, aimed primarily toward minority students, has been published and will be used extensively in future recruitment activities.

Francis J. Balint

*Chief, Management and Planning
Branch
Computer Division
Office of Administration
National Oceanic and Atmospheric
Administration*

Mr. Francis J. Balint is cited for his valuable contributions to the improvement of computer utilization and for the vigorous and effective leadership he provided the Management Systems Division while on a special assignment. He assumed principal responsibility for the development of the data processing techniques for the CDC-6600 computer and accomplished the work with distinction. In this assignment he has brought innovations to the area of administrative systems.

Robert O. Cole

Deputy Chief, Basic Weather Forecast Branch, Analysis and Forecast Division, National Meteorological Center

*National Weather Service
National Oceanic and Atmospheric Administration*

Mr. Robert O. Cole has demonstrated extraordinary skill in improving forecasts produced by electronic computers. A "man-machine mix" is practiced at the Center, by which forecasters receive computer prepared products, apply their skills, and then distribute these improved products into the Weather Service's forecast system. Mr. Cole's success in improving the products has been 40 percent higher than the average of his co-workers for the past year. He has helped experienced forecasters increase their skill and has trained new forecasters in the techniques. His unique ability in this key process has contributed to significant advancement of the quality of guidance weather forecasts available throughout the Nation.

Joseph F. Dracup

*Chief, Adjustment Section
Geodesy Division
National Ocean Survey
National Oceanic and Atmospheric Administration*

Mr. Joseph F. Dracup is recognized for sustained leadership and superior professional performance in effectively meeting compelling user requirements of geodetic control. He has provided outstanding guidance in promoting and extending

the use of federal geodetic control throughout the United States. Mr. Dracup has been unusually effective in educating the surveying community through written and oral presentations to national organizations. He is highly regarded by the surveying community for his expertise in the field of geodetic surveying.

Reynold A. Fredin

*Director, Biometrics Institute
Biological Laboratory
National Marine Fisheries Service
National Oceanic and Atmospheric Administration
Seattle, Washington*

Mr. Reynold A. Fredin has served for several years as a scientific advisor to the U.S. Section of the International North Pacific Fisheries Commission in its international negotiations with Japan and Canada relating to salmon problems of the North Pacific Ocean. He is widely respected and has won the confidence of scientists in this country as well as Japan and Canada as a result of his development of guidelines for determining the types of data and research necessary to qualify certain stocks of salmon for abstention from exploitation under the North Pacific Treaty.

Otha Fuller, Jr.

*Chief, Operations Branch
Data Automation Division
National Meteorological Center
National Weather Service
National Oceanic and Atmospheric
Administration*

Mr. Otha Fuller has distinguished himself in technical and managerial accomplishments. He has been a dynamic member of the numerical weather prediction group for more than 15 years, during which time it has been undergoing a technological revolution. His dedication in administering to the needs of the complex computer systems has been outstanding. In spite of the unusual pressures which his position demands, he has applied a continuing resourcefulness to the duties for over a decade. In times of computer emergencies his ingenuity and on-the-spot improvisations have many times been the key to success of the mission of the Service.

Harold L. Goodwin

*Deputy Director, Office of Sea
Grant
National Oceanic and Atmospheric
Administration*

Mr. Harold L. Goodwin is recognized for his outstanding skill and ability in performing duties leading to program enhancement, especially his notable contribution to the report of the President's Commission on Marine Science, Engineering, and Resources. His accomplishments in projecting the

National Sea Grant Program to academia, industry, governments of the Sovereign States, and the public in meaningful terms have enabled universal understanding of how the government proposed to work in and protect the aquatic environment in the public interest.

Elbert C. Hill, Jr.

*Meteorologist
National Hurricane Center
National Weather Service
National Oceanic and Atmospheric
Administration
Miami, Florida*

Mr. Elbert C. Hill has developed automated data processing and analysis programs tailored to the requirements of the National Hurricane Center at Miami, Florida which are broadly applicable to tropical analysis and prediction elsewhere. His achievements have enabled the National Hurricane Center to embark upon an entirely new and more objective approach to weather prediction and decision analysis in the forecasting of hurricanes as well as day-to-day prediction of hazardous weather conditions over the tropical and subtropical Atlantic Ocean. Mr. Hill, employing techniques not found elsewhere in the entire meteorological profession, has paved the way for important improvement in forecasting skills in the tropics and reduction of the risk of serious hurricane prediction errors.

Charles E. Kincaid

*Staff Assistant for Administration
National Oceanographic Data Center
Environmental Data Service
National Oceanic and Atmospheric
Administration*

As Staff Assistant for Administration, Mr. Charles E. Kincaid has successfully guided the NODC through the administrative intricacies involved in acquiring and exchanging marine data on a national and international level. In addition he has managed an organization through a major reorganization, and subsequently through a comparatively smooth transition into NOAA. He has given freely of his time to promote a positive career advancement program by counseling minority employees.

William E. Randall

*Captain, NOAA Corps
Office of Administrator
National Oceanic and Atmospheric
Administration*

Since the inception of NOAA and its predecessor agencies, Captain William E. Randall has not only served as Deputy Executive Officer but has carried the entire load of the agency's legislative function. While all of his legislative work has been outstanding, particularly noteworthy is his effort which culminated in P.L. 91-621, an Act to clarify the status and benefits of Commissioned Officers of the NOAA Corps and for other purposes. More than any one person he was responsible for shepherding

this piece of legislation, so essential to the NOAA Corps, through Congress.

Henry Rockwood

*Chief, Data Acquisition Branch
Operations Division
National Weather Service
National Oceanic and Atmospheric
Administration
Garden City, New York*

Mr. Henry Rockwood is recognized for his initiative, outstanding management, and leadership in improving the quality of weather observations. Through his efforts and under his supervision the Eastern Region Upper Air Program was modernized with the use of time-share computers; errors in surface weather observations taken at National Weather Service Offices and FAA facilities were greatly reduced due to a new system of error analysis; and errors in observations taken by Supplementary Aviation Weather Reporting Stations were reduced by a new quality control system. Mr. Rockwood's enthusiasm, positive thinking, and extraordinary managing ability have resulted in vastly improved observational programs in this region.

J. Malcolm Symons

*Chief, Tides and Currents Branch
Oceanography Division
Office of Hydrography and Oceanography
National Ocean Survey
National Oceanic and Atmospheric
Administration*

Refinement of techniques in tidal observations have been made over a considerable period of time by Mr. J. Malcolm Symons in support of increasingly more complex definitions pertinent to the establishment of seaward boundaries. Unprecedented amounts of money are dependent for disposition on the precise determination of coastal boundaries needed to define offshore areas where the recovery of oil reaches astronomical amounts. Mr. Symons has developed most of the procedures now followed in handling this great national problem. His work is also highly important in the complicated procedures for evaluating storm insurance functions for Housing and Urban Development.

Robert G. Twa

*Meteorological Technician
National Weather Service
National Oceanic and Atmospheric
Administration
Muskegon, Michigan*

Mr. Robert G. Twa is cited for his technical ability in surface observations, radar operation, forecasting, and briefing. He demonstrates

personal initiative in warning of critical weather conditions and advising and briefing the general public, mariners, and pilots. During the 1970 Cherry Festival at Traverse City, Michigan, Mr. Twa alerted officials of approaching severe weather in time for 200 small craft to reach shore. On two occasions he helped avert disaster in the Coho fishing fleet between Muskegon and Empire by alerting the Coast Guard and law-enforcement agencies of the approach of severe weather in time for the boats to reach safety. He was instrumental in establishing warning procedures implemented in the above situations.

Arthur W. Youmans

*Chief, Operations Branch
Overseas Operations Division
National Weather Service
National Oceanic and Atmospheric
Administration*

Mr. Arthur W. Youmans performed outstandingly as the manager of two important international projects in meteorological operations. As project manager for meteorological operations in Panama and Colombia in support of the Interoceanic Canal Study Program, he made the initial site surveys for the jungle stations and subsequently supervised all aspects of the operation thereof, including technical, personnel, finance and supply matters. As project leader for technical operations by the U.S. in the Voluntary Assistance Program of the World Meteorological Organization, he manages programs having a total cost of about \$3,000,000 in more than 30 countries.

John R. Hope

*Hurricane Specialist
National Hurricane Center
National Weather Service*

Charles J. Neumann

*Meteorologist
Spaceflight Meteorology Group*

*National Oceanic and Atmospheric
Administration
Miami, Florida*

Mr. John R. Hope and Mr. Charles J. Neumann are cited for demonstrating unusual ingenuity, skill, and technical competence in the development of objective techniques for hurricane prediction. They developed a computerized method which compares critical characteristics of a current storm with all previous tropical cyclones of record, selects all similar cases, composites their histories, plots the resultant track, and computes the probability of storm occurrence within any designated area to either side of this track. The entire procedure is completed in minutes and provides an objective determination of the areas most likely to be affected by a storm for periods up to three days in advance, employing, for the first time in hurricane prediction, maximum utilization of more than 80 years of storm records.

William J. Monteith

Supervisory Civil Engineer

Herman Ebel

Survey Boat Operator

*Lake Survey Center
National Ocean Survey
National Oceanic and Atmospheric
Administration
Detroit, Michigan*

Under extremely adverse weather conditions on July 23, 1971, Messrs. William J. Monteith and Herman Ebel aboard the LSC vessel LAIDLAY assisted in rescuing personnel from a capsized sailboat. Anticipating that the sailboat would not be able to survive the worsening sea conditions, the LAIDLAY came about to conduct the small boat into port. Upon finding the sailboat capsized, Messrs. Monteith and Ebel conducted a search culminating in the rescue of the sailboat crew and recovery of the sailboat.

Milton Buchler

*Supervisory Primary Examiner
Patent Office*

Mr. Milton Buchler has shown a remarkably high level of industry and devotion to duty, with outstanding skill and ability in the performance of supervisory duties which have materially assisted program advancement in the Patent Office with resulting contributions of unusual value to the missions of the Department. The art examined

in Art Unit 315 is complex and of a highly technical nature exemplified by spacecraft equipment and methods. Under the capable leadership of Mr. Buchler, the quality and production of the Unit is outstanding, resulting in the achievement of the important Office pending goals.

Fern Dayhuff

*Confidential Assistant
Office of the Solicitor
Patent Office*

In the course of long and outstanding service as confidential assistant to the Solicitor of the Patent Office, Mrs. Fern Dayhuff has developed systems for managing court records which have enabled substantially error-free operation of the Solicitor's litigation docket. At the same time she has earned an unequalled reputation for helpfulness to court personnel, the public, and the patent bar by reason of her cooperative attitude and knowledgeable background.

Obie C. Dodson

*Document Services Manager
Document Services Division
Patent Office*

Mr. Obie C. Dodson has made significant contributions to the mission of the Patent Office by utilizing his outstanding ability. His desire to develop and promote im-

provements in methods, procedures, and equipment in the fields of microphotography and xerography has been realized by the many improved services to the public.

Reuben Epstein

*Patent Examiner
Patent Office*

Mr. Reuben Epstein is recognized for his development of scientific and legal standards advancing the Patent Office mission of examination of patent applications in fields related to the production or utilization of atomic energy or special nuclear material.

Saul Lefkowitz

*Attorney-Examiner
Trademark Trial and Appeal Board
Patent Office*

Mr. Saul Lefkowitz's outstanding professional expertise and standing in the field of trademark law have played a most significant part in the high respect given the Trademark Trial and Appeal Board. In addition he has contributed to educational betterment of the professionals of the Patent Office in trademark matters and in the modernization of the rules of practice.

Andrew G. Richardson

*Technical Illustrator
Drafting Division
Patent Office*

Mr. Andrew G. Richardson possesses an unusual ability to compose technical and graphic illustrations. He is extremely talented and his creativity and originality, coupled with his artistic ability, produce meaningful visual assistance in any endeavor. His visuals are used within and outside the Patent Office to illustrate, teach, and convey a message that can readily be understood by government personnel as well as the general public.

Robert M. Walker

*Patent Examiner
Patent Office*

Mr. Robert M. Walker has readily accepted new methods and ideas in patent practice and procedure and has wholeheartedly implemented new concepts. His efforts in reducing the backlog of applications pending before the Patent Office have been recognized many times. His exemplary performance over many years has acted as a catalyst in inspiring his fellow workers to carry out Patent Office goals.

Rosa L. Murphy

*Offset Press Operator
Office of the Secretary*

Mrs. Rosa L. Murphy represents an exceptionally strong link in the printing production chain in the Office of Publications. Quiet, composed, extraordinarily dedicated and competent, she operates a small press in an area established to handle rush work, including news releases and other "while-you-wait" jobs. Mrs. Murphy stands for quality, accuracy, and the meeting of deadlines, no matter how difficult or inconvenient. She has made a vital contribution to the record-breaking production achieved this year by the Offset Printing Branch.

Howard T. Spicer

*Assistant Chief, Property & Records Division
Office of Administrative Services
Office of the Secretary*

Mr. Howard T. Spicer is recognized for the excellence of his performance in handling space and property problems associated with the renovation of the Main Commerce Building. He has shown remarkable versatility in handling the innumerable minor crises that erupted on an almost daily basis in the course of the two-year renovation project. His responsiveness to problems has earned him respect as a problem solver and his equanimity under pressure has defused many potential controversies.

Sidney Springer

*Chief, Materiel Management Staff
Office of Administrative Services
Office of the Secretary*

Mr. Sidney Springer is recognized for the development and implementation of an improved Department of Commerce Materiel Management system. Savings and cost avoidances, to date, exceed \$3,000,000 and are projected at \$12,000,000 when full implementation is accomplished. The Materiel Management Staff also developed the Department's first supply management handbook. Mr. Springer's persistence, strong leadership and in-depth knowledge of supply systems are the major elements responsible for the successes of the program.

Blanton C. Duncan

*Research Chemist
Computer Services Division
Center for Computer Sciences &
Technology
National Bureau of Standards*

The General Purpose Scientific Document Image Code System of software and associated hardware, which Dr. Blanton C. Duncan designed, programmed, and implemented, enables a typist to keyboard for computer storage, editing, and retrieval, a complex scientific manuscript in essentially the same way she normally would when using an ordinary typewriter. Dr. Duncan's System makes use of a computer so easy that it can be

extended into any busy office where technical manuscripts are prepared. The GPSDIC System has brought many of the NBS Data Centers to the forefront of computer utilization in a highly efficient and effective manner at great saving in manpower and time.

Kenneth M. Evenson

*Physicist
Institute for Basic Standards
National Bureau of Standards
Boulder, Colorado*

Dr. Kenneth M. Evenson is recognized for his contributions in quantum electronics and molecular physics. In particular, his efforts in measuring the frequency of infrared lasers are significant. His highly original research in the use of infrared lasers as spectroscopic sources is having an impact in such areas of science as astrophysics and radio astronomy. It is entirely through Dr. Evenson's efforts that the National Bureau of Standards is at the forefront of laser frequency measurements and the scientific applications of infrared lasers.

David Garvin

*Coordinator of Data Programs
Physical Chemistry Division
Institute for Materials Research
National Bureau of Standards*

Dr. David Garvin is recognized for his outstanding contributions to organization and technical operations of data centers in physical chemistry. Dr. Garvin, with high technical and managerial skill, bridged an enormous gap between theory and practice of scientific information storage and retrieval by his practical implementation of a new and extraordinarily versatile system, the Scientific Document Image Code, developed with his collaboration. He demonstrated the true advantages and general applicability of this system and made available to the Nation an extremely valuable new procedure for information handling. As a result of Dr. Garvin's initiative and skillful management, the NBS Kinetics Data Center has gained world renown and has become a model for other data centers.

Ronald B. Johnson

*Executive Officer
Institute for Materials Research
National Bureau of Standards*

Mr. Ronald B. Johnson merits recognition for his outstanding contributions to the fiscal and administrative management of the varied and complex programs of the Institute for Materials Research. His keen resourcefulness and innovative abilities have resulted in the establishment of key managerial

mechanisms for the generation, integration, and interpretation of data essential to the management of more than 600 employees and an annual budget of \$16 million.

Iris M. Lloyd

*Management Analyst
Management and Organization Division
Office of Associate Director for Administration
National Bureau of Standards*

Miss Iris M. Lloyd has made original contributions to the profession of management analysis and to its practice in the Department of Commerce through her innovative approaches to complex problems. Her work has had a significant impact on the policies and methods for economical utilization of the facilities required to conduct the scientific research program of the National Bureau of Standards.

George Marinenko

*Research Chemist
Analytical Chemistry Division
Institute for Materials Research
National Bureau of Standards*

Mr. George Marinenko has demonstrated outstanding skill and originality in developing coulometry into the most accurate and precise analytical technique available for the determination of major constituents in research and Standard Reference Materials. This method has been applied to the analysis of purity and stoichiometry in numerous high purity materials as well as to the determination of the

atomic weight of zinc. Contributions to numerous Standard Reference Materials certifications and service analyses and twenty publications are indicative of Mr. Marinenko's outstanding productivity.

Pearl E. Miller

*Supervisory Accountant
Accounting Division
Office of Associate Director for Administration
National Bureau of Standards*

Mrs. Pearl E. Miller has demonstrated continued outstanding performance and service to NBS as a key member of the Accounting Division. She has made significant and noteworthy contributions to the successful operation and maintenance of the NBS financial management system. She is, indeed, considered to be the foremost authority at NBS in the inner workings of the accounting system and the operation of the NBS Working Capital Fund (WCF). Mrs. Miller has obtained this recognition through years of experience, personal leadership, and dedication.

Helen M. Ondik

*Chemist (Physical)
Inorganic Materials Division
Institute for Materials Research
National Bureau of Standards*

Dr. Helen M. Ondik has done an outstanding job as general editor of the third edition of CRYSTAL

DATA which is scheduled for publication in 1971. This new edition, with 34,000 entries, supersedes the previous edition with 13,000 entries and makes this type of data available in a form adapted to computer searching for the first time. The new edition will be *the* fundamental international source of crystal data. In using the computer for the combined task of analyzing, editing, and organizing this material for data retrieval on a job so large and complex, Dr. Ondik has broken new ground.

Oskars Petersons

*Electrical Engineer
Electricity Division
Institute for Basic Standards
National Bureau of Standards*

Mr. Oskars Petersons has demonstrated outstanding competence in the field of electrical measurements by successfully developing a new high-voltage capacitance bridge. This bridge, based on the current comparator principle, has made possible the establishment at the National Bureau of Standards of a calibration service for high-voltage capacitors and inductive reactors and a greatly improved means of calibrating voltage-measuring transformers. These services have long been desired by the electrical power industry. In its range and accuracy capability as well as in convenience in use, the facility he has developed far exceeds the performance of equipment previously available for this purpose in this or any other country.

Arthur W. Ruff

Physicist

Metallurgy Division

Institute for Materials Research

National Bureau of Standards

Dr. Arthur W. Ruff has made outstanding contributions to the study of the microstructure of metals and alloys and has exhibited outstanding leadership of groups carrying out such studies. His personal work on the measurement of stacking fault energy in alloys by electron microscopic techniques is world renowned. His groups have developed programs in quantitative metallography, the precision measurement of lattice parameters, and the theory of dislocations. The work of this group formed the basis for the calibration of two new Standard Reference Materials, for the analysis of rock samples from the moon, and for helping to determine the cause of failure of the Silver Bridge; and has recently been applied to the corrosion of alloys in desalination plants. In addition, Dr. Ruff implemented a new Scanning Electron Microscope facility that serves the entire Institute for Materials Research.

James I. Shultz

Chemist

Analytical Chemistry Division

Institute for Materials Research

National Bureau of Standards

Mr. James I. Shultz has made outstanding contributions to the NBS Standard Reference Materials Program which have been of great value to the Government, to science, and to industry. Through his

own work in analytical chemistry he improved methods of analysis of ferrous materials and assisted in developing recognized standard methods of analysis of many metals and alloys. These developments have been especially important to the accurate analysis of Standard Reference Materials. As Coordinator of the SRM program for the Analytical Chemistry Division, he was especially effective in obtaining the cooperation of both NBS and industrial laboratories to expedite development of SRM's and to minimize their cost.

Jack Sugar

Physicist

Optical Physics Division

Institute for Basic Standards

National Bureau of Standards

Dr. Jack Sugar's research on the optical spectra of rare-earth ions has greatly increased the knowledge of their electronic energy-level structures. Such information allows the interpretation and prediction of important physical and chemical properties of substances and plasmas in which these elements occur. Dr. Sugar and a co-worker have also derived the most accurate known values for the ionization potentials of most of the rare-earth elements. The extent and reliability of Dr. Sugar's results have contributed greatly to making NBS a recognized international center in the analysis and theoretical interpretation of complex atomic spectra.

Sam R. Coriell

Research Chemist

Stephen C. Hardy

Physicist (Solid State)

*Metallurgy Division
Institute for Materials Research
National Bureau of Standards*

Beginning in 1967 Dr. Sam R. Coriell and Mr. Stephen C. Hardy have collaborated intensively and fruitfully in their studies of the morphological stability (stability of the shape) of growing crystals with the result that seven outstanding publications of their work have been completed. These papers have provided the first detailed experimental test of the morphological stability theory of crystal growth, and in addition to corroborating that theory they have considerably extended it. In doing so, Dr. Coriell and Mr. Hardy have, in addition, provided a new method for measuring a fundamental thermodynamic property of materials, namely the solid-liquid interfacial free energy, and have, in fact, obtained a new value for that quantity for the highly important ice-water system.

Ernest L. Garner

Physicist (Atomic and Molecular)

Lawrence A. Machlan

Research Chemist

*Analytical Chemistry Division
Institute for Materials Research
National Bureau of Standards*

Mr. Ernest L. Garner and Mr. Lawrence A. Machlan are recognized for intensive and extremely dedicated efforts in the development of uranium isotopic standards which today form the basis throughout the world for accurate measurement in the nuclear industry. During the past decade they have labored to prepare and certify greatly improved standards on which can be based the value of nuclear fuel as it is exchanged in the nuclear power industry, as well as the implementation of meaningful nuclear safeguards both nationally and internationally. This joint effort, requiring broad interaction between mass spectrometry and chemistry, has led to improvements in the accuracy of certification of uranium isotopic standards by more than a factor of 10.

Rubin Wagner

*Chief, Computer-Assisted Printing
Section
Office of Technical Information &
Publications*

Robert C. Thompson

*Physicist (General)
Data Systems Design
Office of Standard Reference Data*

Carla G. Messina

*Physicist (General)
Data Systems Design
Office of Standard Reference Data
National Bureau of Standards*

The team of Mr. Rubin Wagner, Mr. Robert C. Thompson and Mrs. Carla G. Messina is being recognized for its outstanding and highly innovative work in the development and operation of a comprehensive system for computer-assisted typesetting. Starting essentially from the beginning, but drawing upon the experience and expertise of each member of the team—conventional typesetting techniques on the one hand and general-purpose computer programming techniques on the other—the team has brought the NBS automated publications program to the forefront of the state of the art in an incredibly short time.

Charles E. Raymond

*Director, Market Analysis Division
Office of Textiles*

Mr. Charles E. Raymond has made many valuable contributions to the Office of Textiles. He developed a comprehensive data bank and innovated special techniques for the presentation of briefing data for U.S. trade negotiators. In 1969, he directed the presentation of key economic material on which the U.S. based its position in textile discussions with Japan. In 1971, he developed a new type of exporters' alert report that has been widely acclaimed by the textile industry. He has maximized the utilization of the skills of his subordinates and instilled in them a sense of the importance of his Division's mission. Charles Raymond's ability is highly respected by his staff, his supervisors, and the American textile industry.

SUGGESTION AWARD

Stanley Hansen

*Maritime Surveyor
Western Region Office
Maritime Administration
San Francisco, California*

Mr. Stanley Hansen devised a method to take impressions of ships' gears, using materials and techniques similar to those used by dentists and dental technicians. This enables marine engineers to determine conclusively the condition of the gears without costly disassembly for visual inspection. The gear costs thus obtained permit the best evaluation of actual pitting, undercutting, and flaking. The U.S. Coast Guard, American Bureau of Shipping, and other organizations have now adopted this technique. An estimated first-year saving of over \$150,000 resulted from application of the suggestion.

